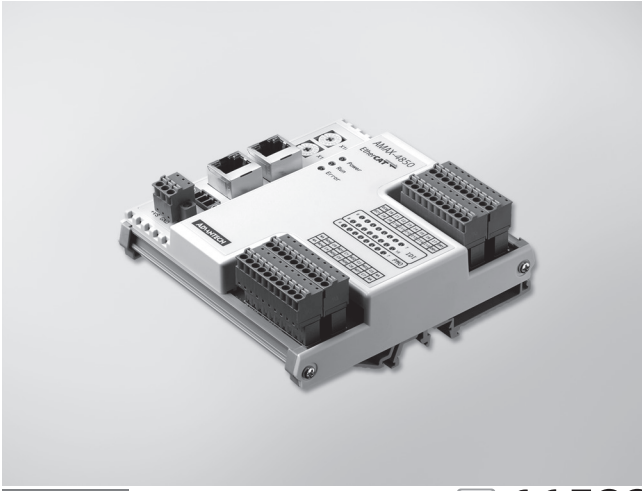


AMAX-4850

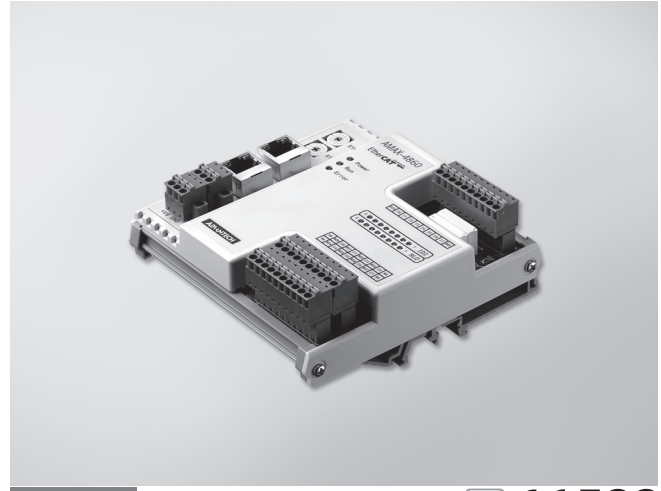
AMAX-4860

16-ch IDI & 8-ch PhotoMOS EtherCAT Remote I/O module

8-ch IDI & 8-ch Relay EtherCAT Remote I/O module



AMAX-4850



AMAX-4860



Features

- Suitable for EtherCAT networks
- 16-ch digital input and 8-ch PhotoMOS Relay output (Form A)
- 1500 V_{DC} optical isolation for relay outputs
- Quick removable European type connector
- LED indicators for I/O status
- Supports EtherCAT Distributed Clock (DC) mode and SyncManager mode
- Two Rotary switches for up to 256 slave IDs

Introduction

The AMAX-4850 is an industrial EtherCAT slave module equipped with the EtherCAT protocol. Its compact size and DIN-rail mount kit can install easily in a cabinet. Euro type pluggable terminal blocks and LED indicator help users to maintain and set up their system. All digital input and PhotoMOS Relay Output channels are protected by isolation circuits.

Specifications

Communication

▪ Interface	EtherCAT
▪ Data transfer medium	Ethernet/EtherCAT cable (min. CAT 5), shielded
▪ Distance between modules	Max. 100 m (100BASE-TX)
▪ Communication Cycle Time	200us
▪ Data transfer rates	100 Mbps
▪ Configuration	Not required

Digital Input

▪ Channels	16
▪ Input voltage	Logic 0: 3 V max.; Logic 1: 10 V min. (30 V max.)
▪ Isolation protection	2,500 V _{DC}

PhotoMOS Relay Output

▪ Channels	8
▪ Relay type	PhotoMOS SPST(Form A)
▪ Load Voltage	60V (AC peak or DC)
▪ Load current	1.2A
▪ Peak load current	4A @100ms(1 pulse)
▪ Isolation protection	1,500 V _{DC}
▪ Turn-on time	1 ms typical
▪ Turn-off time	0.6 ms typical

General

▪ Connectors	10-pin 3.81 mm terminal block * 4 (I/O) 3-pin 3.81 mm screw terminal block (power) RJ-45 * 2 (EtherCAT)
▪ Dimensions	120 mm x 120 mm x 40 mm
▪ Operating temperature	-20 ~ 60°C (-4 ~ 140°F)
▪ Storage temperature	-40 ~ 70°C (-40 ~ 158°F)
▪ Storage humidity	5 ~ 95% RH (non-condensing)
▪ Power supply	10 ~ 30 V _{DC}
▪ Power Consumption	Typical 85mA @24V; Max. 110mA @24V

Ordering Information

▪ AMAX-4850-AE	16 IDI & 8 PhotoMOS EtherCAT Remote I/O module
▪ 96PSD-A40W24-MM	DIN RAIL A/D 100-240V 40W 24V

Features

- Suitable for EtherCAT networks
- 8-ch Isolated Digital Input and 8-ch Form A-type Relay Output
- High-voltage isolation on input channel (2,500 V_{DC})
- Quick removable European type connector
- LED indicators for I/O status
- Supports EtherCAT Distributed Clock (DC) mode and SyncManager mode
- Two Rotary switches for up to 256 slave IDs

Introduction

The AMAX-4860 is an industrial EtherCAT slave module equipped with the EtherCAT protocol. Its compact size and DIN-rail mount kit can install easily in a cabinet. Euro type pluggable terminal blocks and LED indicator help users to maintain and set up their system. All digital input channels are protected by 2,500 V_{DC} isolation circuits.

Specifications

Communication

▪ Interfac	EtherCAT
▪ Data transfer medium	Ethernet/EtherCAT cable (min. CAT 5), shielded
▪ Distance between modules	Max. 100 m (100BASE-TX)
▪ Data transfer rates	100 Mbps
▪ Configuration	Not required
▪ Communication Cycle Time	200us

Digital Input

▪ Channels	8
▪ Input voltage	Logic 0: 3 V max.; Logic 1: 10 V min. (30 V max.)
▪ Isolation protection	2,500 V _{DC}

Relay Output

▪ Channels	8
▪ Relay Type	Form A
▪ Contact Rating (resistive)	2A@250V _{AC} , 2A@30V _{DC}
▪ Max. Switching Power	500VA, 60W
▪ Max. Switching Voltage	270V _{AC} , 125V _{DC}
▪ Resistance	30mΩ max.
▪ Operating Time	Max. 10ms
▪ Releasing Time	Max. 5ms
▪ Life Expectancy	Mechanical 2 x 10 ⁷ ops. at no load. Electrical 3 x 10 ⁴ ops. @2A/250V _{AC}

General

▪ Connectors	10-pin 3.81 mm terminal block * 3 (I/O) 3-pin 3.81 mm screw terminal block (power) RJ-45 * 2 (EtherCAT)
▪ Dimensions	120 mm x 120 mm x 40 mm
▪ Operating temperature	-20 ~ 60°C (-4 ~ 140°F)
▪ Storage temperature	-40 ~ 70°C (-40 ~ 158°F)
▪ Storage humidity	5 ~ 95% RH (non-condensing)
▪ Power supply	10 ~ 30 V _{DC}
▪ Power Consumption	Typical 85mA @24V; Max. 110mA @24V

Ordering Information

▪ AMAX-4860-AE	8-ch IDI & 8-ch Relay EtherCAT Remote I/O module
▪ 96PSD-A40W24-MM	DIN RAIL A/D 100-240V 40W 24V